call void @llvm.dbg.value(metadata ptr %a, metadata !49, metadata ...!DIExpression()),!dbg!58 call void @llvm.dbg.value(metadata ptr %b, metadata !50, metadata ...!DIExpression()), !dbg !58 call void @llvm.dbg.value(metadata ptr %c, metadata !51, metadata ... !DIExpression()), !dbg !58 call void @llvm.dbg.value(metadata ptr %cond, metadata !52, metadata ...!DIExpression()),!dbg!58 call void @llvm.dbg.value(metadata i32 %n, metadata !53, metadata ...!DIExpression()), !dbg !58 %call = tail call double @getTimeMiliSeconds(), !dbg !59 call void @llvm.dbg.value(metadata double %call, metadata !55, metadata .. !DIExpression()), !dbg !58 %0 = load i32, ptr @EventSet, align 4, !dbg !60, !tbaa !62 %call1 = tail call i32 @PAPI start(i32 noundef %0) #10, !dbg !66 call void @llvm.dbg.value(metadata i32 %call1, metadata !54, metadata .. !DIExpression()), !dbg !58 %cmp.not = icmp eq i32 %call1, 0, !dbg !67 br i1 %cmp.not, label %for.cond.preheader, label %if.then, !dbg !68 if.then: for.cond.preheader: %1 = load ptr, ptr @stderr, align 8, !dbg !73, !tbaa !75 call void @llvm.dbg.value(metadata i32 0, metadata !56, metadata %call2 = tail call i32 (ptr, ptr, ...) @fprintf(ptr noundef %1, ptr noundef ... nonnull @.str, i32 noundef %call1, ptr noundef nonnull @.str.1, i32 noundef .. !DIExpression()), !dbg !69 %cmp3131 = icmp sgt i32 %n, 0, !dbg !70 ... 37) #11, !dbg !73 br i1 %cmp3131, label %for.body.preheader, label %for.cond.cleanup, !dbg !72 tail call void @exit(i32 noundef %call1) #12, !dbg !73 F unreachable, !dbg !73 for.body.preheader: %wide.trip.count = zext i32 %n to i64, !dbg !70 br label %for.body, !dbg !72 for.body: %indvars.iv = phi i64 [0, %for.body.preheader], [%indvars.iv.next, .. %for.inc] call void @llvm.dbg.value(metadata i64 %indvars.iv, metadata !56, metadata .. !DIExpression()), !dbg !69 %arrayidx = getelementptr inbounds i8, ptr %cond, i64 %indvars.iv, !dbg !82 %3 = load i8, ptr %arrayidx, align 1, !dbg !82, !tbaa !85, !range !87 %tobool.not = icmp eq i8 %3, 0, !dbg !82 br i1 %tobool.not, label %for.inc, label %if.then4, !dbg !88 %arrayidx6 = getelementptr inbounds i32, ptr %a, i64 %indvars.iv, !dbg !89 %arrayidx8 = getelementptr inbounds i32, ptr %c, i64 %indvars.iv, !dbg !91 %4 = load i32, ptr %arrayidx8, align 4, !dbg !91, !tbaa !62 %arrayidx11 = getelementptr inbounds i32, ptr %b, i64 %indvars.iv, !dbg !92 %5 = load i32, ptr %arrayidx11, align 4, !dbg !92, !tbaa !62 %6 = trunc i64 %indvars.iv to i32, !dbg !93 %mul21 = mul nsw i32 %5, %6, !dbg !93 %reass.add = sub i32 %6, %4 %reass.mul = shl i32 %reass.add, 1 %add = add i32 %mul21, %5, !dbg !94 %add25 = add i32 %add, %reass.mul, !dbg !95 store i32 %add25, ptr %arrayidx6, align 4, !dbg !95, !tbaa !62 %mul43127.neg = sub i32 -3, %4, !dbg !96 %add44.neg134 = mul i32 %mul43127.neg, %6, !dbg !96 %7 = add i32 %5, %4 %reass.add129 = sub i32 %add25, %7 %reass.mul130 = shl i32 %reass.add129, 1 %add37 = add i32 %add44.neg134, 2, !dbg !97 %sub47 = add i32 %add37, %reass.mul130, !dbg !98 store i32 %sub47, ptr %arrayidx11, align 4, !dbg !98, !tbaa !62 %8 = sub nsw i32 %4, %sub47, !dbg !99 %sub61 = shl nsw i32 %8, 1, !dbg !99 %mul62 = mul nsw i32 %6, %6, !dbg !100 %add63 = add nsw i32 %sub61, %mul62, !dbg !101 %mul64.neg = mul i32 %add63, -3, !dbg !102 %9 = sub i32 %add25, %6, !dbg !103 %10 = add i32 %9, %sub47, !dbg !104 %sub65 = shl i32 %10, 1, !dbg !104 %sub71 = add i32 %mul64.neg, %sub65, !dbg !105 store i32 %sub71, ptr %arrayidx8, align 4, !dbg !105, !tbaa !62 br label %for.inc, !dbg !106 for.inc: %indvars.iv.next = add nuw nsw i64 %indvars.iv, 1, !dbg !107 call void @llvm.dbg.value(metadata i64 %indvars.iv.next, metadata !56, ... metadata !DIExpression()), !dbg !69 %exitcond.not = icmp eq i64 %indvars.iv.next, %wide.trip.count, !dbg !70 br i1 %exitcond.not, label %for.cond.cleanup, label %for.body, !dbg !72, .. !llvm.loop !108 for.cond.cleanup: %2 = load i32, ptr @EventSet, align 4, !dbg !77, !tbaa !62 %call73 = tail call i32 @PAPI_stop(i32 noundef %2, ptr noundef nonnull ... @CounterValues) #10, !dbg !79 call void @llvm.dbg.value(metadata i32 %call73, metadata !54, metadata ...!DIExpression()),!dbg!58 %cmp74.not = icmp eq i32 %call73, 0, !dbg !80 br i1 %cmp74.not, label %if.end77, label %if.then75, !dbg !81 F if.then75: %11 = load ptr, ptr @stderr, align 8, !dbg !112, !tbaa !75 %call76 = tail call i32 (ptr, ptr, ...) @fprintf(ptr noundef %11, ptr %call78 = tail call double @getTimeMiliSeconds(), !dbg !114 %sub79 = fsub double %call78, %call, !dbg !115 ... noundef nonnull @.str, i32 noundef %call73, ptr noundef nonnull @.str.1, i32 ... noundef 53) #11, !dbg !112 store double %sub79, ptr @ExecutionTime, align 8, !dbg !116, !tbaa !117 tail call void @exit(i32 noundef %call73) #12, !dbg !112 ret void, !dbg !119 unreachable, !dbg !112